
Rule CIC266: Connection problems caused **specific** ALLOCATE requests to fail

Finding: CPExpert noticed that **specific** ALLOCATE requests failed because of problems with the communication link between the two systems.

Impact: This finding should normally have a HIGH IMPACT on the performance of the CICS region.

Logic flow: This is a basic finding, based upon an analysis of the CICS statistics. Please refer to Rule CIC260 for a discussion of basic ISC/IRC concepts.

Discussion: A CICS region can communicate with another CICS region or with a remote system only after a "communication link" has been established between the CICS region and the other CICS region or the remote system.

Transactions acquire the use of a session in an ISC/IRC environment by using the ALLOCATE command. Conversations can take place between the two CICS regions or systems only after the session has been allocated.

CICS will process the ALLOCATE request only if the communication link is established and operational between the two systems. CICS will reject the ALLOCATE request if the connection has been released, the connection is out of service, or the mode group has been closed.

CPExpert produces Rule CIC266 if the number of Failed Link Allocates (A20ESTAF) is greater than the **ALLOCF** guidance variable, for requests to allocate **specific** sessions with a modegroup.

The default specification for the ALLOCF guidance variable is **%LET ALLOCF = 0**, indicating that no failed allocation requests are acceptable.

Suggestion: CPExpert suggests that you examine the state of the connection that CICS is trying to allocate a session for the modegroup. Resolve any problem causing the **specific** ALLOCATE requests to fail.

You should check the CSMT log for the CICS statistics interval reported by Rule CIC266 for an indication of the problem with the connection for the modegroup described by the rule output.

Reference: *CICS/ESA Version 3.1.1 Performance Guide*: pages 76-84.

CICS/ESA Version 3.2.1 Performance Guide: pages 294-301.

CICS/ESA Version 3.3.1 Performance Guide: page 60 and pages 313-320.

CICS/ESA Version 4.1.1 Performance Guide: Section 2.2.23 and Appendix A.1.13.

CICS/TS Release 1.1 Performance Guide: Section 2.2.23 and Appendix 1.1.14.

CICS/TS Release 1.2 Performance Guide: Section 2.2.24 and Appendix 1.1.14.

CICS/TS Release 1.3 Performance Guide: Section 2.2.25 and Appendix 1.1.15.

CICS/TS for z/OS Release 2.1 Performance Guide: Chapter 5 (ISC/IRC system and mode entry statistics) and Appendix A (Table 64).

CICS/TS for z/OS Release 2.2 Performance Guide: Section 2.2.27 (Interpreting ISC/IRC system and mode entry statistics) and Appendix 1.1.12. |